

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-194887

(43) Date of publication of application : **29.07.1997**

(51)Int.Cl. C11D 7/00
B08B 3/10
H01L 21/304

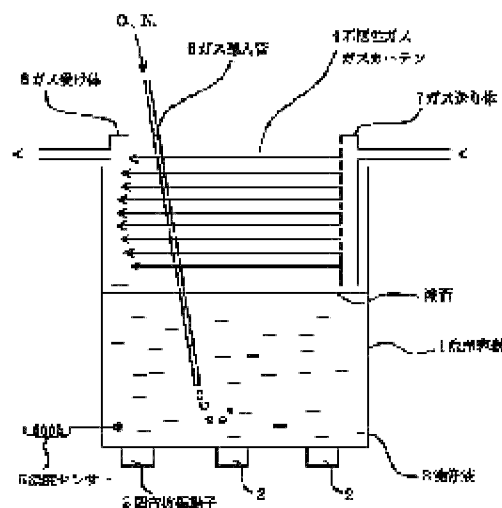
(21)Application number : **08-005400** (71)Applicant : **TSUDA MASAYUKI**
(22)Date of filing : **17.01.1996** (72)Inventor : **TSUDA MASAYUKI**
OMI TADAHIRO
HARADA YASUYUKI

(54) CLEANING FLUID AND METHOD FOR CLEANING THEREWITH

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a cleaning fluid being advantageous in that the treatment can be performed at room temperature without heating, the amounts of chemicals and water used are small, no special apparatus need for use, and no special chemicals need to be used, and also provide a method for cleaning therewith.

SOLUTION: This fluid comprises pure water and 20 to 100ppb of oxygen and at least 2ppb of nitrogen contained therein. Alternatively, it comprises OH--containing electrolytic ionic water and 20-100ppb of oxygen contained therein. This method comprises cleaning a substrate with a cleaning fluid comprising pure water and 20-100ppb of oxygen and 2ppb to 15ppm of nitrogen contained therein or a cleaning fluid comprising



OH--containing electrolytic ionic water and 20ppb to 100ppb oxygen therein while applying ultrasonic waves at 30kHz or above to the fluid.